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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,448	01/27/2004	Udi Suissa	TI-34792 3215	
	7590 04/15/200 RUMENTS INCORPOI	EXAMINER		
POBOX 6554		FOTAKIS, ARISTOCRATIS		
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2611	
			NOTIFICATION DATE	DELIVERY MODE
			04/15/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Application N	lo.	Applicant(s)		
Office Action Summary		10/766,448		SUISSA ET AL.		
		Examiner		Art Unit		
		ARISTOCRAT	IS FOTAKIS	2611		
The MAILING DATE Period for Reply	E of this communication ap	ppears on the co	ver sheet with the c	orrespondence ad	ddress	
A SHORTENED STATUT WHICHEVER IS LONGE - Extensions of time may be availal after SIX (6) MONTHS from the n - If NO period for reply is specified - Failure to reply within the set or e	R, FROM THE MAILING I ble under the provisions of 37 CFR 1 hailing date of this communication. above, the maximum statutory perior extended period for reply will, by statu ater than three months after the maili	DATE OF THIS 1.136(a). In no event, h d will apply and will exp ute, cause the application	COMMUNICATION owever, may a reply be tinuing SIX (6) MONTHS from to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	•	
Status						
2a)⊠ This action is FINA 3)□ Since this application	munication(s) filed on <u>03/</u> L. 2b) The properties of the condition for allowed the condition for allowed the practice under	nis action is non- vance except for	formal matters, pro		e merits is	
Disposition of Claims						
5)⊠ Claim(s) <u>10 - 20</u> is/a 6)⊠ Claim(s) <u>2 - 8</u> is/ar 7)□ Claim(s) is/a 8)□ Claim(s) are	nim(s) is/are withdrage are allowed. e rejected. re objected to.	rawn from consic				
Application Papers						
-	on is/are: a) ☐ acquest that any objection to the sheet(s) including the corre	ccepted or b) occepted or b) occepted or b) occepted or b) occepted if	eld in abeyance. See the drawing(s) is ob	e 37 CFR 1.85(a). ected to. See 37 C	, ,	
Priority under 35 U.S.C. § 1	19					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (P 2) Notice of Draftsperson's Pater 3) Information Disclosure Statem Paper No(s)/Mail Date	nt Drawing Review (PTO-948)	4) 5) 6)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte		

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 2 – 8 are rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. Supreme Court precedent¹ and recent Federal Circuit decisions² indicate that a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. While the instant claim(s) recite a series of steps or acts to be performed, the claim(s) neither transform underlying subject matter nor positively tie to another statutory category that accomplishes the claimed method steps, and therefore do not qualify as a statutory process. The claims are not compliant to none of the two above requirements.

¹ Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780, 787-88 (1876).

² In re Bilski. 88 USPQ2d 1385 (Fed. Cir. 2008).

Claim Objections

Claims 2, 5, 10, 13 and 17 are objected to because of the following informalities:

In claim 2, the limitation "current maximum peak value" in line 15 of Page 2 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 2, the limitation "current maximum peak value" in line 2 of Page 3 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 5, the limitation "**current** minimum peak value" in line 2 of Page 4 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

In claim 5, the limitation "**current** minimum peak value" in line 7 of Page 4 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

In claim 10, the limitation "current maximum peak value" in line 13 of Page 5 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 10, the limitation "**current** maximum peak value" in lines 17 -18 of Page 5 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 13, the limitation "current minimum peak value" in lines 15 -16 of Page 6 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

In claim 13, the limitation "current minimum peak value" in line 20 of Page 6 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

In claim 17, the limitation "current maximum peak value" in line 9 of Page 7 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 17, the limitation "**current** maximum peak value" in lines 13 -14 of Page 7 should be changed to -- previous maximum peak value"--. Appropriate correction is required.

In claim 17, the limitation "current minimum peak value" in lines 7 -8 of Page 8 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

In claim 17, the limitation "current minimum peak value" in line 12 of Page 8 should be changed to -- previous minimum peak value"--. Appropriate correction is required.

Allowable Subject Matter

Claims 10 – 20 are allowed.

Response to Arguments

Applicant's arguments filed March 19, 2009 have been fully considered but they are not persuasive.

Applicants submit that claims 2 and 5 are compliant with 35 USC 101, wherein the process (2) transform underlying subject matter (such as an article or materials) to a different state or thing. The Applicants submit that the limitation "an input signal wherein frequency offsets have been translated to DC offsets" represents an <u>actual physical signal</u> and is known to those of ordinary skill in the art. Applicants further submit that the limitations "calculating an average of said current maximum peak value and said current

minimum peak value to yield a DC offset estimate" and "subtracting said DC offset estimate from said input signal to yield a frequency compensated output signal", represents a transformation of the "input signal" into "a frequency compensated output signal" - which is a transformation of signal to a different state or thing, which complies with the requirements of 35 U.S.C. 101.

Examiner submits that the transformation of signal to a different state or thing is not the same as transforming a physical article or material to a different state. The signal itself does not have a physical embodiment but it is information data acted on. Therefore, the claims do not meet the requirements of 35 USC 101 where the alteration of a signal does not comprise the physical transformation

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to ARISTOCRATIS FOTAKIS whose telephone number is

(571)270-1206. The examiner can normally be reached on Monday - Thursday 6:30 - 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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/Aristocratis Fotakis/

Examiner, Art Unit 2611

/Chieh M Fan/

Supervisory Patent Examiner, Art Unit 2611